

Notice of Allowability

Application No.

10/538,690

Examiner

Sanza L. McClendon

Applicant(s)

YAMADA ET AL.

Art Unit

1796

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 9/26/2007.
2. ☒ The allowed claim(s) is/are 1-10.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 9/11/05
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

DETAILED ACTION
Response to Amendment

1. In response to the Amendment received on September 26, 2007, the examiner has carefully considered the amendments.

Response to Arguments

2. Applicant's arguments, see Remarks, filed September 26, 2007, with respect to claims 1-10 are have been fully considered and are persuasive. The rejection of claims 1-10 under 35 USC 103(a) as being unpatentable over Utsunomiya et al (JP 200-181062, herein after JP'062) in view of Kinugasa et al (JP 2001-058972, herein after JP'972) has been withdrawn. After reconsideration and applicant's arguments, the examiner deems that JP'062 does not expressly teach the photosensitive resin as instantly claimed and the secondary reference, while teaching the use of hydroxyalkyl glycidyl acrylates does not teaches modifying saponified poly (vinyl acetate) photosensitive resins as instantly claimed but, rather, for the use of making modified epoxy acrylate resins for coating and paint systems. It is deemed that one of ordinary skill in the art would not have necessarily used the teachings of the secondary reference in combination with the primary reference, JP'062, because they are from difference fields of endeavor (i.e., JP'062 is in the photoresist art, while JP'972 is in the ink coating/paint art) and thus not expressly obvious to one of ordinary skill in the art of the instant invention. Regarding applicant's arguments concerning the water-solubility of the compounds of JP'972, as well as, being analogs of those found in JP'062, the examiner deems these arguments are debatable but since it has been established that JP'972 would be unobvious for an artisan in the photoresist/electronic art to utilize in combination with JP'062 these arguments are moot. Therefore the closest prior art made of record would be JP'062 as found in the previous office action, EP 0726486 as seen in the PTO-1499 dated 9/01/2005, and JP 10-003167 as found on the PTO-892 dated 6/26/2007. These references all teach photosensitive resins obtained from saponified and non-saponified PVA resin. Said modification if obtained via reaction with a reaction product of a glycidyl (meth) acrylate and a carboxylic or hydroxy compound having an aldehyde or acetal group. The instant invention is distinguished over these references since the instant invention modified said saponified PVA with a reaction product of hydroxyalkyl acrylate glycidyl ether and a carboxylic acid having an aldehyde group or acetal group.

Allowable Subject Matter

3. Claims 1-10 are allowed.

4. The following is an examiner's statement of reasons for allowance: The primary reason for allowance alone or in combination is the prior art fails to expressly teach and/or fairly suggest a photosensitive saponified poly (vinyl acetate) photosensitive having the general formula (1) as found in instant claim 1. See above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

EXAMINER'S AMENDMENT

5. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Brian Gomez on December, 2007.

The application has been amended as follows:

Please amend claim 10 as follows, insert after the word "resin", the phrase "composition as recited in claim 4 to photopolymerization".

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sanza L. McClendon whose telephone number is (571) 272-1074. The examiner can normally be reached on Monday through Friday 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on (571) 272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number:
10/538,690
Art Unit: 1796

Page 4

A handwritten signature in black ink, appearing to read "Sanza L. McClendon". The signature is fluid and cursive, with the first name "Sanza" being more prominent than the last name "McClendon".

Sanza L. McClendon

Examiner

Art Unit 1796

SMc